## "METHOD AND APPARATUS FOR ANALYIZING BIOLOGICAL TISSUE IMAGES"

## ABSTRACT

The present invention relates to a method and an apparatus for processing images of biological tissues, in particular of human or animal origin. The metric quantification of a biological body part or tissue or of an abnormal material spot or aggregate contained therein is also performed by means of the invention method. The method according to the invention is applied in particular to the Computed Axial Tomography technique.

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In particular, the present invention relates to a method for processing images acquired by a CAT scan technique, comprising a stage of homogeneity map generation (HOMO-GEN) which comprises the following steps:

- la) dividing the image into boxes of different size iteratively, firstly in four quadrants, then proceeding by linear or exponential steps till a predefined size;
- 2a) calculating for each quadrant at each division scale the relative dispersion (RD) obtained as the Standard Deviation divided by the mean value of the pixels, in order to associate to each quadrant a set of values of RD;
- 25 3a) generating a homogeneity map as a grey scale

image, each point's brightness being given by the mean of the set of values of RD for each quadrant, wherein the image's regions having higher brightness correspond to homogeneous regions.

5 (FIGURE 2)